

## M 5.4, 13km SE of Kalbay, Philippines

Origin Time: 2020-02-20 09:54:07 UTC (Thu 17:54:07 local)

Location: 5.6229° N 125.5728° E Depth: 201.0 km

Created: 2 hours, 2 minutes after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



### Estimated Economic Losses

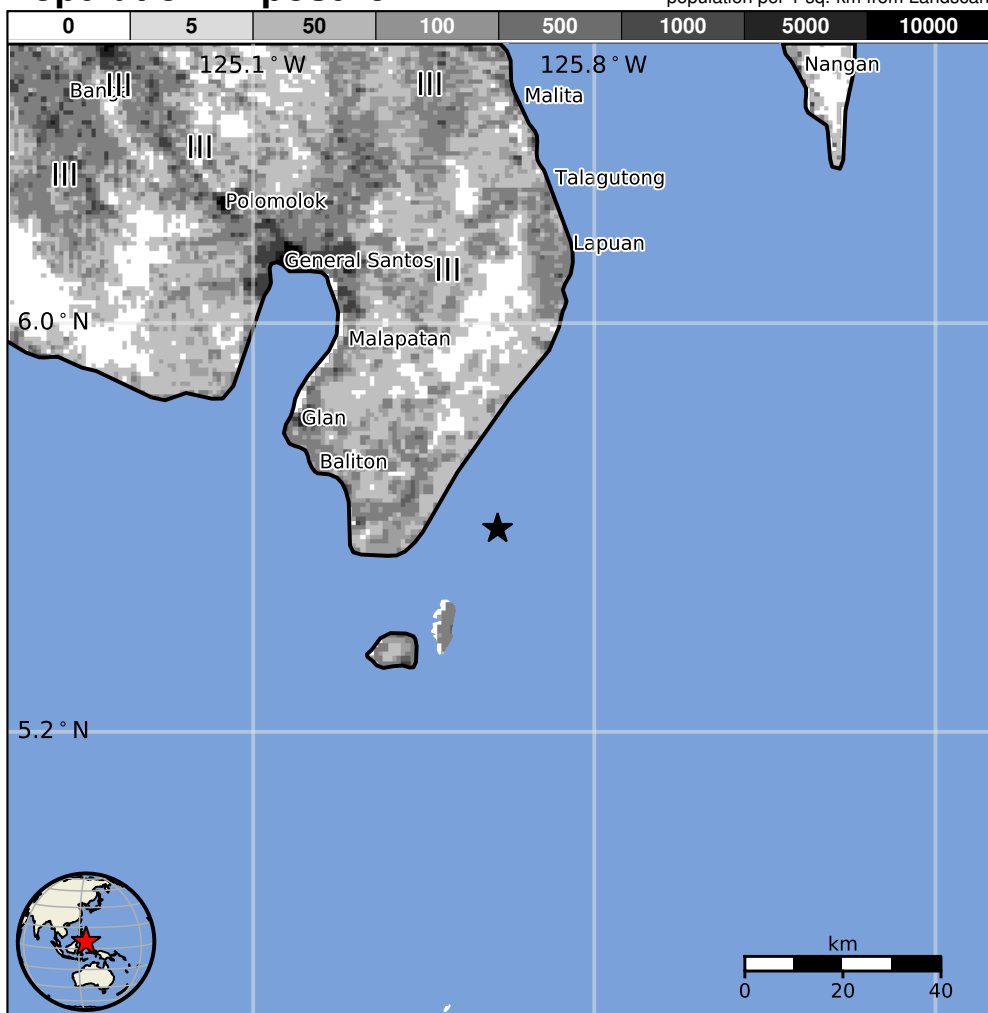


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	2,340k*	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1987-05-23	267	5.7	VII(70k)	1
1987-05-18	295	6.2	VIII(12k)	1
2002-03-05	157	7.5	VIII(12k)	15

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Buayan	15k
III	Katangawan	8k
III	Lun Pequeno	12k
III	Tinagacan	5k
III	Alabel	43k
III	Butulan	2k
III	<b>General Santos</b>	<b>680k</b>
III	<b>Polomolok</b>	<b>64k</b>
III	Malungun	52k
III	Koronadal	126k
III	<b>Banga</b>	<b>59k</b>

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us70007th0#pager>

Event ID: us70007th0